

NOTES ON CONSTRUCTION

1. GLUING - ALL OPPOSING WOOD SURFACES, AFTER BEING MATCHED AND FITTED SHOULD FIRST BE GIVEN A GENEROUS COATING OF GOOD WATERPROOF GLUE THEN SCREWED OR CLAMPED TOGETHER UNTIL GLUE IS SET.
- THIS DOES NOT APPLY TO REMOVABLE PANELS OR TO COVERS AND ADAPTORS FASTENED OVER SPEAKER, DRIVER, OR NETWORK HOLES, CUTOUT FOR FUTURE USE.
2. HOLES - ALL DRILLED HOLES FOR WOOD SCREWS TO BE 11/64" DIAMETER.
- FOR 1/4-20 "T" NUTS - 19/64" DIAMETER.
- FOR 10-32 "T" NUTS - NO.1 DRILL (.228) DIA.
- DRILLED HOLES FOR 1/4-20 MACHINE SCREWS TO BE 5/16" IN DIAMETER.
3. WOOD VENEERS - ALL WOOD FACE VENEERS ARE TO BE 1/28" THICK. THESE WOOD VENEER FACINGS SHOULD BE SELECTED TO MATCH, IN BOTH TYPE AND GRAIN, THE VENEERED PLYWOOD USED ON OTHER PARTS OF THE ENCLOSURE.

BILL OF MATERIAL

PART NO. NO. 12340	NAME	MATERIAL & SPECIFICATION	SIZE
- 1	TOP PANEL	3/4" VENEERED PLYWOOD	20" X 37 7/8"
- 2	BOTTOM PANEL	3/4" D.F. PLYWOOD	19 1/4" X 37 3/8"
- 3	LEFT SIDE PANEL	3/4" VENEERED PLYWOOD	20" X 23 3/4"
- 4	RIGHT SIDE PANEL	3/4" VENEERED PLYWOOD	20" X 23 3/4"
- 5	SCAB - HORIZONTAL	3/4" VENEERED PLYWOOD	2" X 33 1/2"
- 6	SCAB - VERTICAL	3/4" VENEERED PLYWOOD	2" X 21 3/8"
- 7	FACE VENEER - HORIZONTAL	AS NOTED	1 3/4" X 38 3/8"
- 8	FACE VENEER - VERTICAL	AS NOTED	1 3/4" X 38 3/8"
- 9	BACK PANEL	3/4" D.F. PLYWOOD	1 3/4" X 37 5/16"
- 10	TERMINAL PAD	1/8" MASONITE BACKING	23 1/2" X 37 5/16"
- 11	REAR TOP CLEAT, LONG	3/4" D.F. PLYWOOD	1-3/4" X 7 1/2"
- 12	REAR TOP CLEAT, SHORT	3/4" WHITE PINE	1" X 7 1/2"
- 13	REAR SIDE CLEAT	3/4" WHITE PINE	1" X 6 1/4"
- 14	REAR SIDE CLEAT	3/4" WHITE PINE	1" X 6 1/4"
- 15	HORN PANEL SUPPORT	WHITE PINE	7 1/8" X 15 1/8" X 22 3/16"
- 16	FRONT HORN PANEL	WHITE PINE	6 1/8" X 22 3/16"
- 17	CUTTER HORN PANEL	1" X 4 1/4" X 22 3/16"	19 1/4" X 22 3/16"
- 18	HORN PANEL FILLET	WHITE PINE	1" X 4 1/4" X 22 3/16"
- 19	CORNER FILLET SUPPORT	WHITE PINE	4 3/8" X 22 3/16"
- 20	CORNER FILLET	WHITE PINE	2 1/2" X 1 1/2"
- 21	FRONT THROAT Baffle	WHITE PINE	1 1/4" X 21 3/16"
- 22	FRONT THROAT Baffle	WHITE PINE	1 1/4" X 21 3/16"
- 23	DRIVER SUPPORT BLOCK	3/4" D.F. PLYWOOD	16 3/8" X 22 3/4"
- 24	HOLE PADDING	FELT, SOFT	7" X 7"
- 25	SOUND ABSORBENT PAD	FIBRE GLASS	2" X 14" X 3 1/16"
- 26	175 DRIVER HOLE COVER	3/8" D.F. PLYWOOD	21 3/4" X 32 1/4" X 1 1/4"
- 27	DRIVER BUMPER BLOCK	WHITE PINE	6 1/2" X 6 1/2"
- 28	REAR THROAT Baffle	3/4" D.F. PLYWOOD	3 1/4" X 21 1/2" X 7 1/8"
- 29	THROAT SPACER	3/4" WHITE PINE	13 5/8" X 22 3/4"
- 30	REAR INNER HORN PANEL	3/4" D.F. PLYWOOD	3 1/2" X 7"
- 31	FRONT INNER HORN PANEL	3/4" D.F. PLYWOOD	7 1/8" X 22 3/4"
- 32	STIFFENER CLEAT, TOP & BOTTOM	3/4" WHITE PINE	4 3/16" X 22 3/4"
- 33	SPEAKER Baffle CLEAT, TOP & BOTTOM	3/4" WHITE PINE	2" X 15 1/2"
- 34	SPEAKER Baffle CLEAT, SIDE	3/4" WHITE PINE	1 1/2" X 19 1/8"
- 35	SPEAKER Baffle CLEAT, SIDE	3/4" WHITE PINE	1 1/2" X 22 3/16"
- 36	OTS DRIVER ADAPTOR	3/4" D.F. PLYWOOD	18 1/2" X 20 3/8"
- 37	OTS DRIVER HOLE COVER	3/4" D.F. PLYWOOD	6 1/4" X 6 1/4"
- 38	GRILLE CLOTH SPACER	3/4" WHITE PINE	4" X 4"
- 39	GRILLE CLOTH STRETCHER	WHITE PINE	1 1/4" X 21 1/2"
- 40	GRILLE CLOTH	3/4" D.F. PLYWOOD	11 1/6" X 11 1/6" X 21 1/2"
- 41	GRILLE CLOTH	3/4" D.F. PLYWOOD	1 1/2" X 21 1/2"
- 42	ANCHOR STUD	WENDELL PLASTIC FIB. #3016-1	22 1/4" X 38"
- 43	WOOD SCREW	STEEL	SEE DETAIL DWG.
- 44	WASHER	STEEL, RD. HD. PHILLIPS	#8 X 5/8"
- 45	WING NUT	CUT STEEL	5/16" I.D. X 3/4" O.D.
- 46	WOOD LEG (WITH TABLE BOLT)	BRIGHT STEEL	1/4" X 20
- 47	METAL FERRULE	HARDWOOD, STEEL BOLT - 1/4-20	" "
- 48	SLIDER	SATIN BRASS, (EAGLE MFG. CO. #100)	5/8" DIAMETER
- 49	WOOD SCREW	88 STEEL (KEYSTONE SINGLE PROVIS #20)	#8 X 1 1/2"
- 50	WOOD SCREW	STEEL, FL. HD. PHILLIPS (BLACK OXIDE)	#8 X 1 1/4"
- 51	WOOD SCREW	STEEL, FL. HD. PHILLIPS	#8 X 2"
- 52	WOOD SCREW	STEEL, FL. HD. PHILLIPS	#8 X 5/8"
- 53	MACHINE SCREW	STEEL, RD. HD. PHILLIPS	10-32 X 1"
- 54	T NUT	STEEL	1/4-20 X 9/16"
- 55	FINISH WASHER (FOR BACK PANEL)	STEEL	10-32 X 3/16"
- 56	22	BLACK OXIDE	#8 C&C.
- 57	24	#6 - C.C. BOX	"8 X 1"
- 58	7	STEEL, FL. HD. PHILLIPS	2" X 3/4" X 3/4"
- 59	24	BLUE LATH	193 I.D. X 1" O.D.
- 60	20	WHITE PINE	#8 X 2 1/2"
- 61	1	CUT STEEL	2" X 4" (NOM)
- 62	3	STEEL, FL. HD. PHILLIPS	"6 X 1/2"
- 63	2	DOUGLAS FIR	" "
- 64	2	STEEL, RD. HD. PHILLIPS	" "

NOTES ON U.B.L. COMPONENTS

1. FOR INSTALLATION AND WIRING OF ALL U.B.L. INDIVIDUAL COMPONENTS AND LOUDSPEAKER SYSTEMS, REFER TO INSTRUCTION MANUAL CA-1 FURNISHED WITH ALL COMPONENTS.
2. THE FOLLOWING U.B.L. EXTENDED RANGE LOUDSPEAKERS ARE RECOMMENDED FOR INSTALLATION IN THIS ENCLOSURE :
- D150, D131, AND D123
3. THE FOLLOWING U.B.L. LOUDSPEAKER SYSTEMS ARE RECOMMENDED FOR INSTALLATION IN THIS ENCLOSURE:
- 001, (CONSISTING OF 130A LOWFREQUENCY DRIVER, 175 DRIVER-HORN- LENS AND N1200 NETWORK)
- 002, (CONSISTING OF D123 EXTENDED RANGE SPEAKER, 075 HIGH FREQUENCY DRIVER AND N2600 NETWORK)
- 030, (CONSISTING OF D130 EXTENDED RANGE SPEAKER, 075 HIGH FREQUENCY DRIVER AND N2600 NETWORK)

THIS DOES NOT APPLY TO REMOVABLE PANELS OR TO COVERS AND ADAPTORS FASTENED OVER SPEAKER, DRIVER, OR NETWORK HOLES, CUTOUT FOR FUTURE USE.

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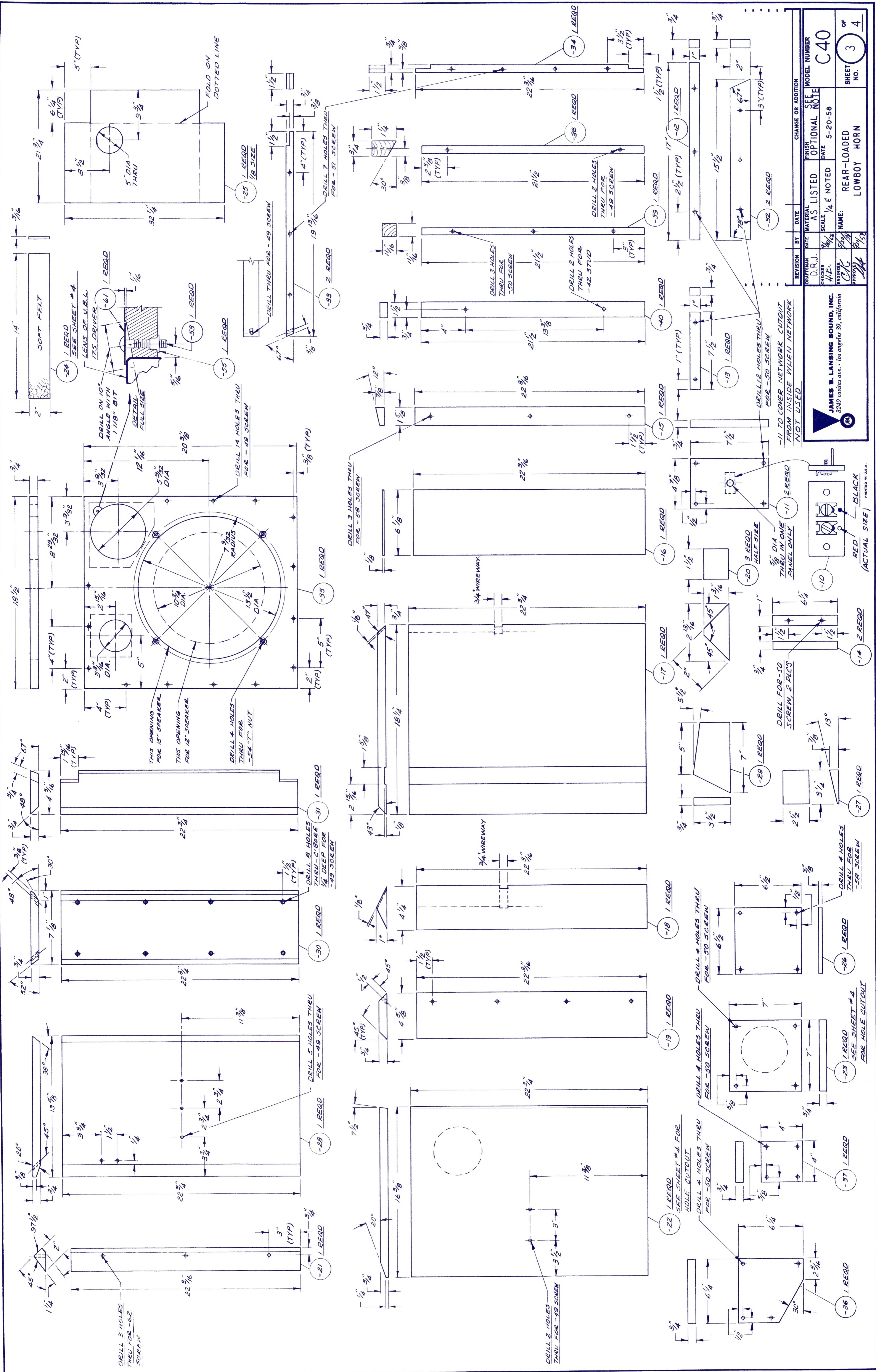
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DRAFTSMAN D.R.J.		DATE 10/10/63	MATERIAL AS LISTED	FINISH OPTIONAL SEE	MODEL NUMBER C40
CHECKER H.C.	SCALE 1/4"	DATE 5-20-58	SIZE 1/4"	OPTIONAL SEE	
ENGINEER C.K.	NAME: REAR-LOADED	DATE 5/21/58	LOWBOY HORN		
APPROVED [Signature]					

JAMES B. LANSING SOUND, INC.  
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Diagram of a 1/2 inch wide by 1/2 inch high mounting plate with two holes. The top hole is labeled "BLACK" and the bottom hole is labeled "RED". A note indicates "(ACTUAL SIZE)".

Technical drawing of a mechanical part. The drawing shows a side view of a component with a sloped surface. Key dimensions and features include:

- A horizontal dimension of  $3\frac{1}{4}$  inches.
- A vertical dimension of  $1\frac{1}{2}$  inches.
- A sloped surface with a  $13^\circ$  angle.
- A horizontal dimension of  $1\frac{1}{2}$  inches.
- A circular feature with a diameter of  $1\frac{1}{2}$  inches.
- Callout -14: 2 REQD (Two required).
- Callout -27: 1 REQD (One required).

1 REQD

4

DRILL 4 HOLE THRU FOR -58 SCREW

SEE SHEET # 4

FOR HOLE CUTOUT

37 / REQD

36 REQD

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CHANGE OR ADDITION			MODEL NUMBER	
REVISION	DATE	MATERIAL	FINISH	SEE NOTE
		AS LISTED		OPTIONAL NOTE
		SCALE	DATE	5-20-58
		1/4 X	NOTED	
NAME:			REAR-LOADED	
			LOWBOY HORN	
ARTSMAN			SHEET NO.	
D.R.J.			3	
CROSS			4	
DATE				
1/4 X				
5/20				
PROVED				
1/4 X				

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Technical drawing of a mechanical part showing a cross-section with dimensions:  $\frac{7}{8}$  inch,  $13^\circ$ ,  $1\frac{1}{2}$  inch, and a note "2 REQD" with a circled "-14".

Technical drawing of a bracket with the following dimensions and features:

- Overall width:  $2\frac{1}{2}$
- Overall height:  $3\frac{1}{8}$
- Top flange width:  $3\frac{1}{4}$
- Top flange thickness:  $\frac{1}{2}$
- Bottom flange thickness:  $\frac{1}{2}$
- Drill holes for  $\frac{1}{8}$ " screws.
- Callout: -27 1 REQD

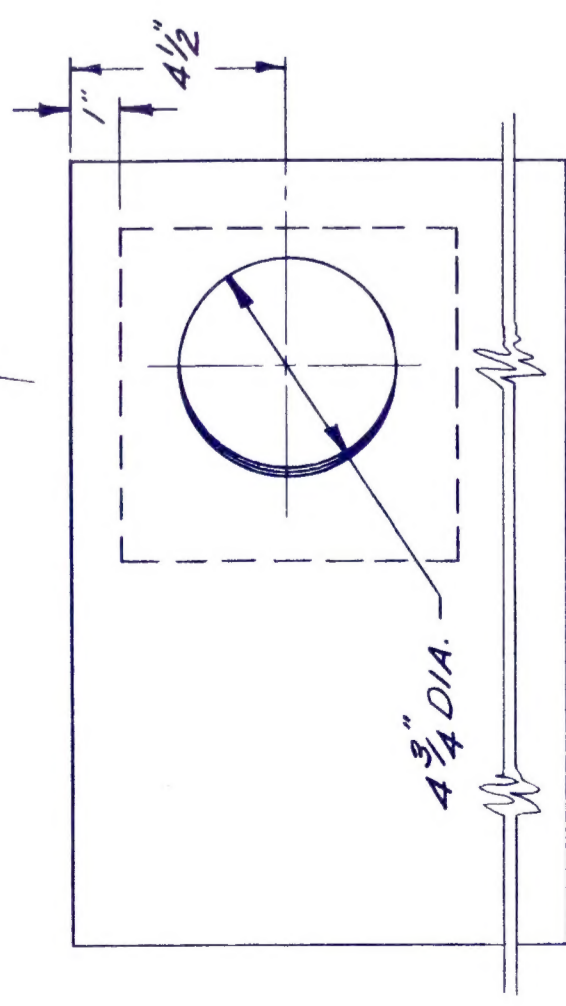
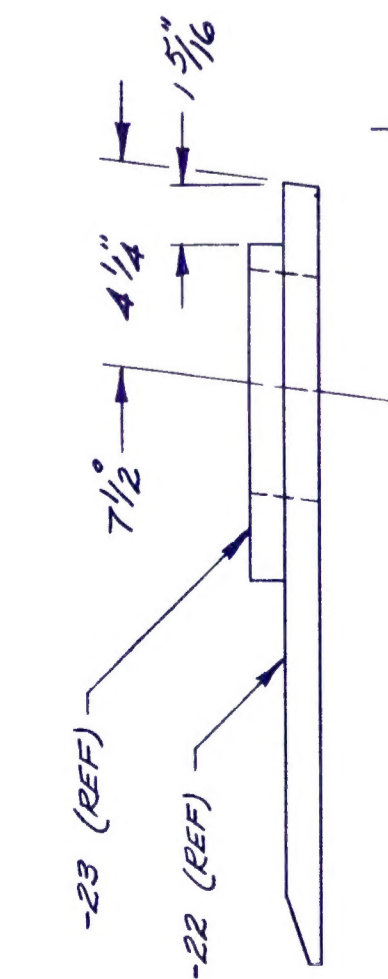
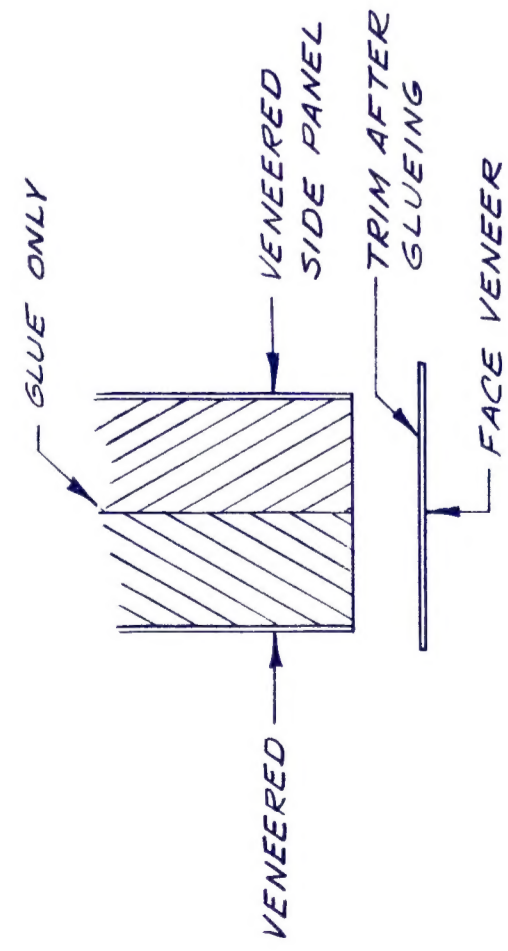
7"  -26 / REED  
1 REED  
FOR HOLE CUTOUT  
FREE SHEET #4

Technical drawing of a mechanical part, likely a bracket or support. The drawing shows a side view with a vertical plate and a horizontal flange. Dimensions include a vertical height of 3" and a horizontal width of 4". A callout circle labeled -37 points to a specific feature on the horizontal flange. The text 1 REQD is written next to the callout.

Technical drawing of a mechanical part. The part is a rectangular block with a 30° chamfer on the top-left corner. The top surface has a width of 2 9/16 inches. A circular feature on the right side is labeled -36. A note '1 REQD' is written next to the circular feature.

NOTE:

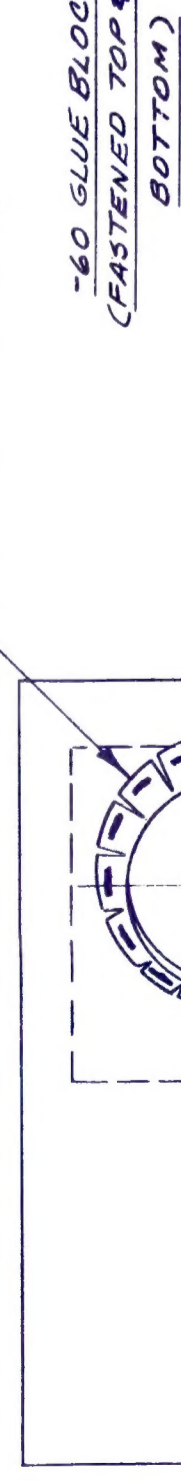
VENEER FOR FRONT EDGES SHOULD BE APPLIED AFTER ALL FOUR SCABS, -5, -6, ARE POSITIONED AND FASTENED WITH FRONT EDGES FLUSH WITH THOSE OF TOP, BOTTOM, AND SIDE PANELS.



VIEW SHOWING 7 1/2" HOLE CUTOUT FOR 175 DRIVER (DO NOT CUT HOLE UNTIL -23 IS FASTENED)

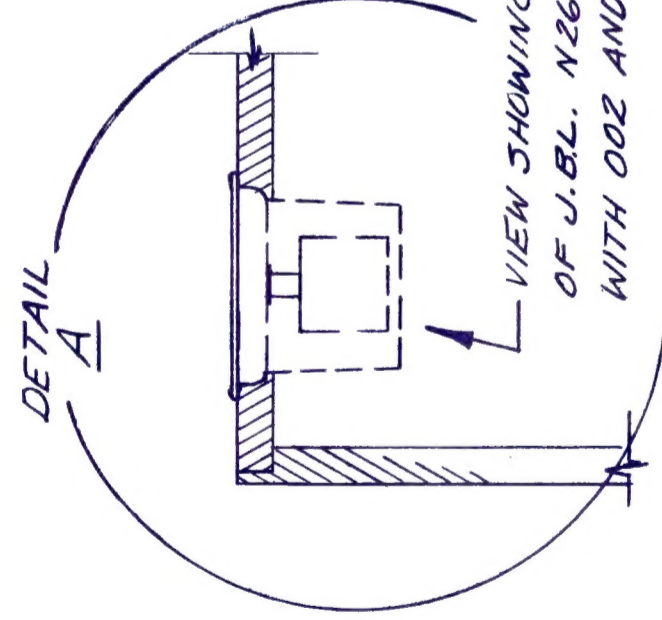
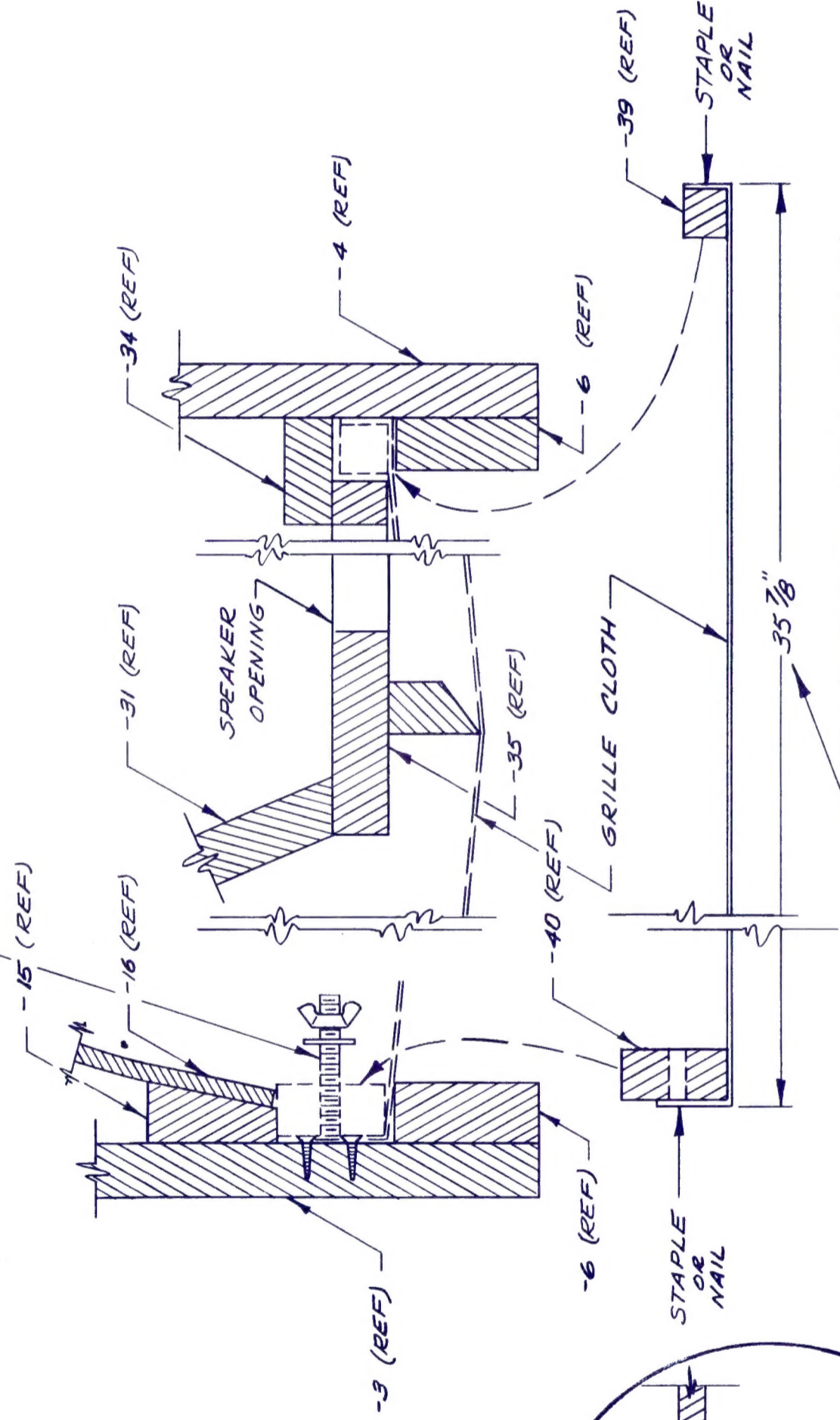
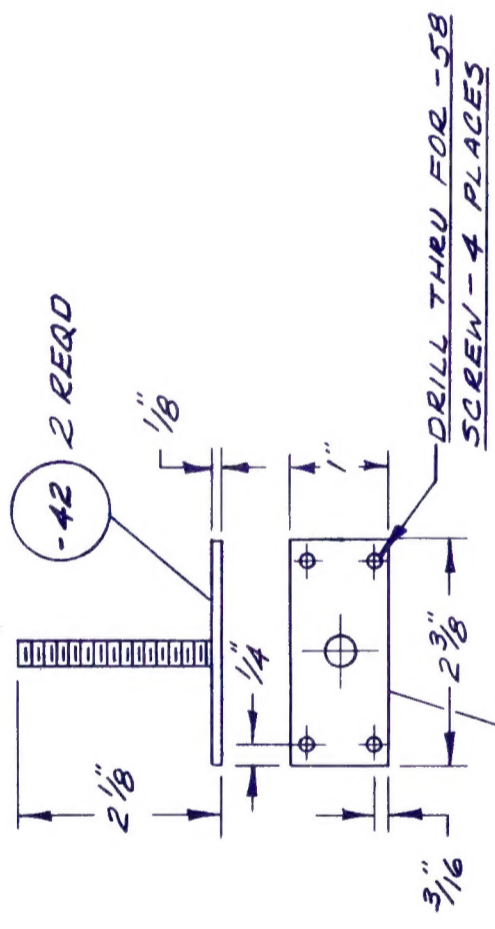


-24 (REF) (STAPLE OR TACK)



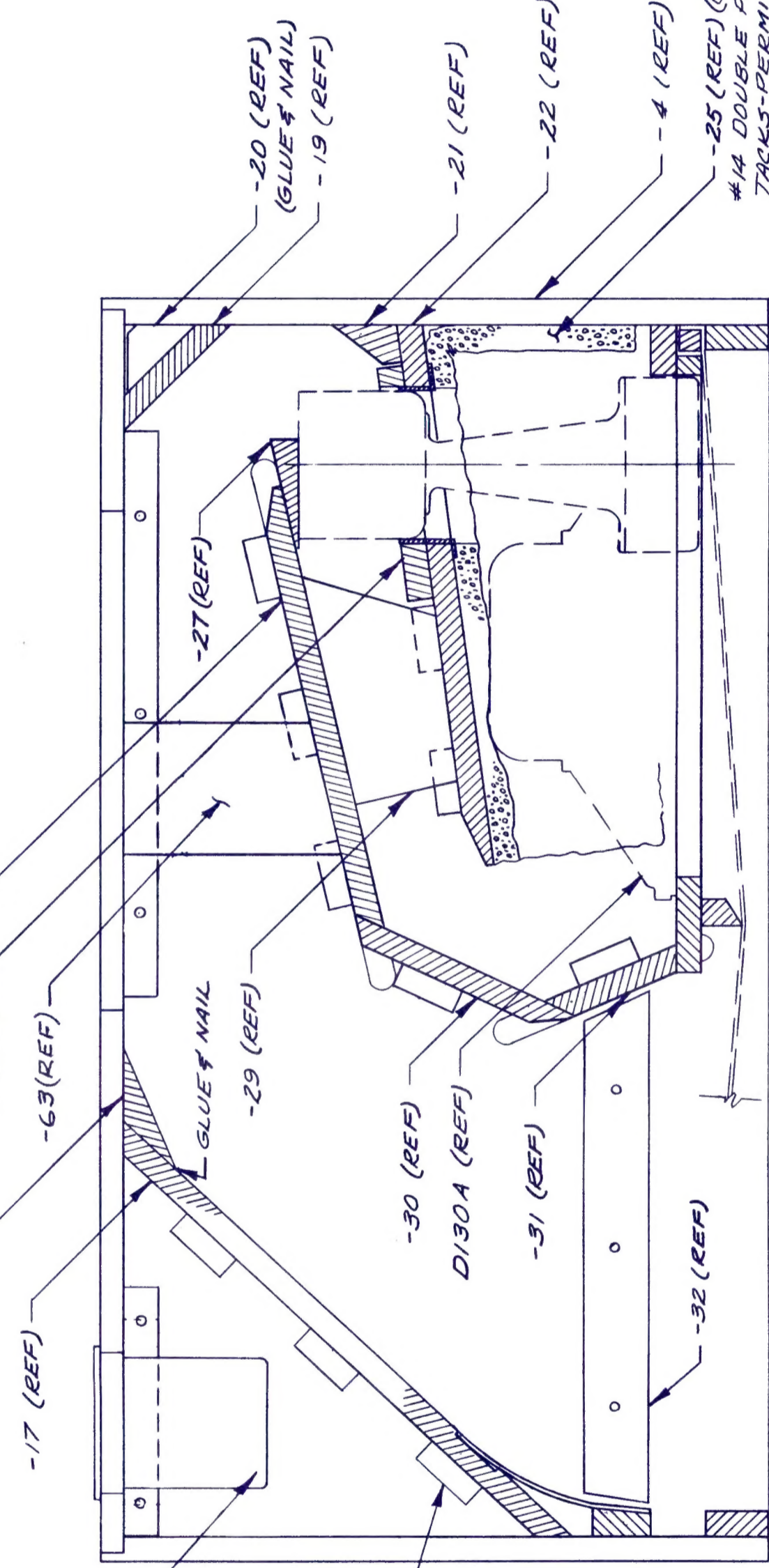
-60 GLUE BLOCKS (FASTENED TOP & BOTTOM)

VIEW SHOWING INSTALLATION OF -24 HOLE PADDING FOR 175 DRIVER



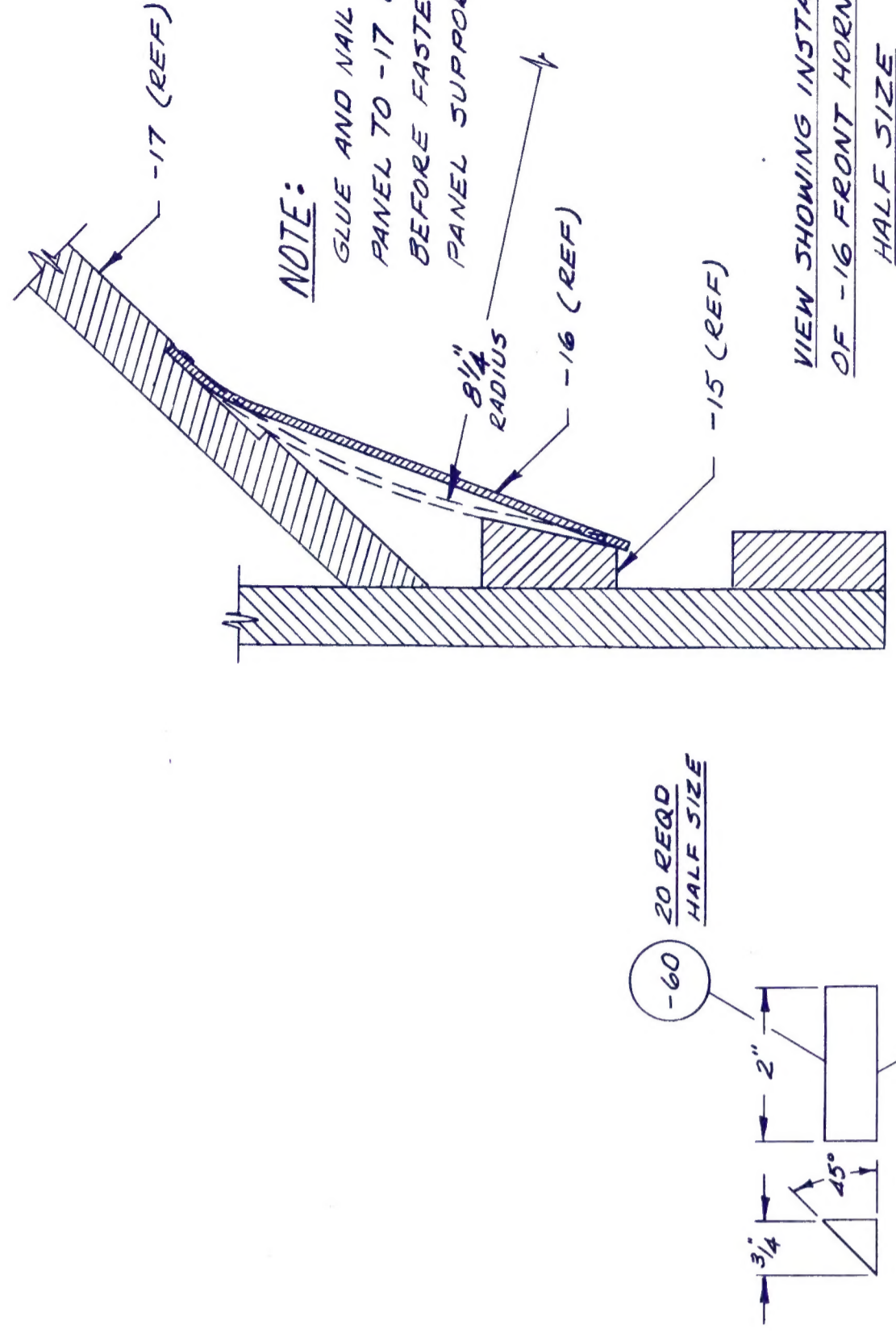
VIEW SHOWING INSTALLATION OF U.B.L. N1200 NETWORK WITH 002 AND 030 SYSTEMS

VIEW SHOWING INSTALLATION OF U.B.L. N1200 NETWORK WITH -18 (REF) 001 SYSTEM.



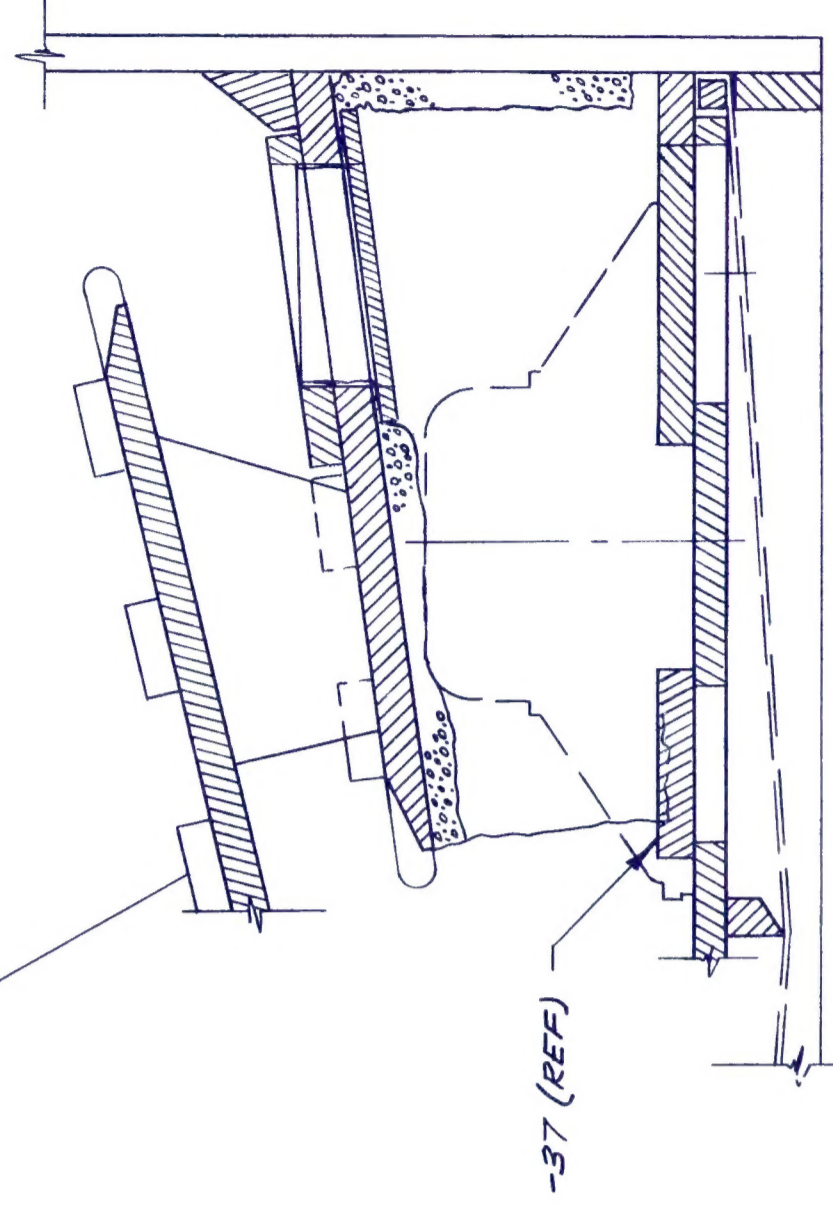
NOTE:

- VIEW SHOWING INSTALLATION WHEN USING U.B.L. 001 SYSTEM - ADJUST -27 DRIVER BUMPER BLOCK TO PERMIT LEAST OF DRIVER TO FIT FLUSH WITH WASHER FASTENED TO -35 SPEAKER Baffle PANEL AS SHOWN ON SHEET #3.
- 17, -28, -30, -22 AND -31 GLUED AT TOP AND GLUED AND NAILED TO BOTTOM PANEL.
- NAIL SIDES THROUGH BOTTOM PANELS EACH SIDE.



NOTE:  
GLUE AND NAIL -16 FRONT HORN PANEL TO -17 OUTER HORN PANEL BEFORE FASTENING TO -15 HORN PANEL SUPPORT WITH GLUE & NAILS

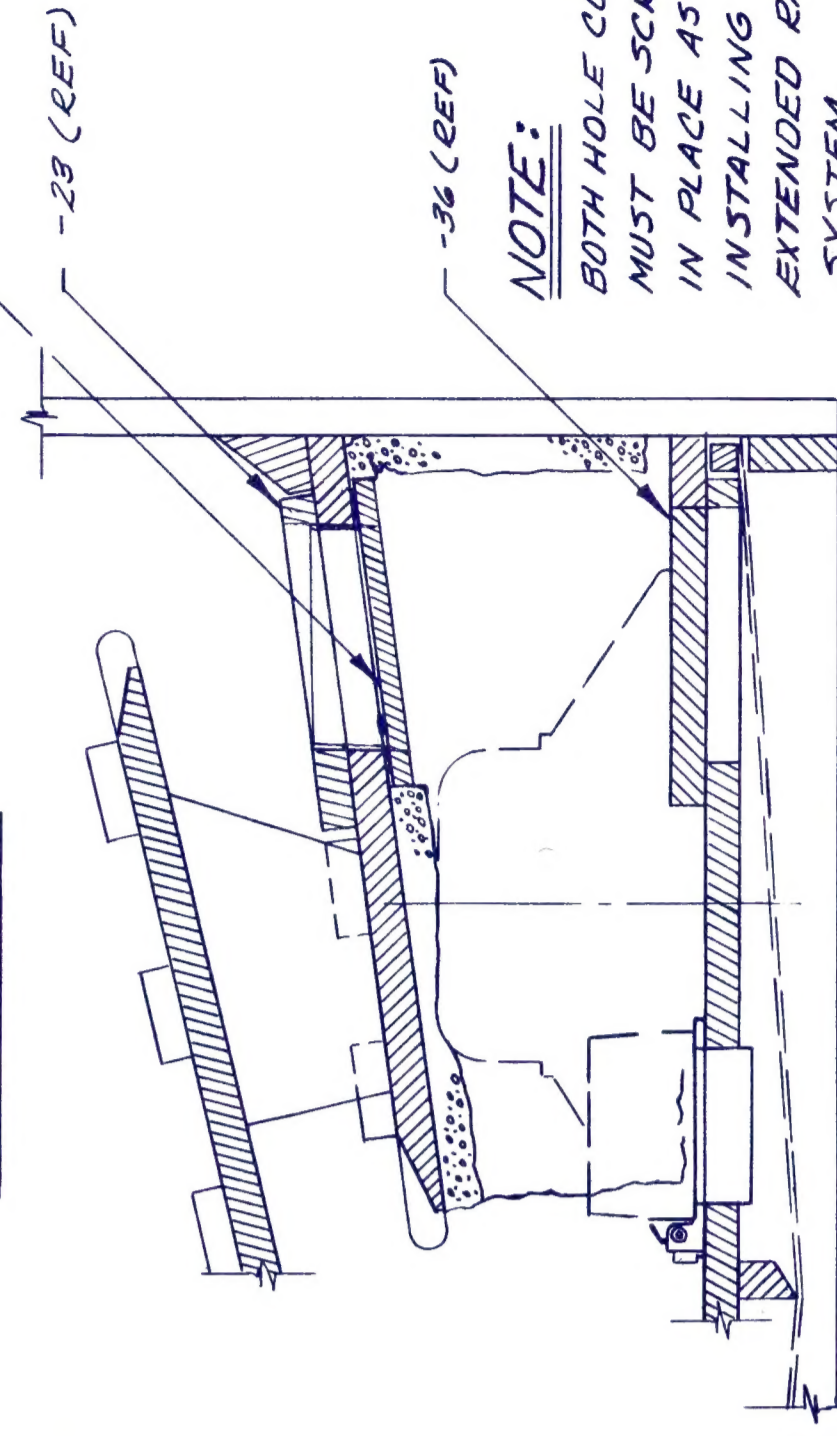
VIEW SHOWING INSTALLATION OF -16 FRONT HORN PANEL HALF SIZE



NOTE:

ALL 3 HOLE COVERS, 26, 36, AND 37 MUST BE SCREWED FIRMLY IN PLACE AS SHOWN WHEN USING U.B.L. EXTENDED RANGE SPEAKERS D130, D131, OR D123.

VIEW SHOWING INSTALLATION WHEN USING U.B.L. EXTENDED RANGE SPEAKERS ONLY



NOTE:

BOTH HOLE COVERS, 26 AND 36 MUST BE SCREWED FIRMLY IN PLACE AS SHOWN WHEN INSTALLING U.B.L. 030 EXTENDED RANGE LOUDSPEAKER SYSTEM.

VIEW SHOWING INSTALLATION WHEN USING U.B.L. 030 LOUDSPEAKER SYSTEM (SEE DETAIL A FOR INSTALLATION OF U.B.L. N2600 NETWORK)

VIEW SHOWING INSTALLATION WHEN USING U.B.L. 030 LOUDSPEAKER SYSTEM (SEE DETAIL A FOR INSTALLATION OF U.B.L. N2600 NETWORK)

REVISION	BY	DATE	CHANGE OR ADDITION
A	H.B.	1/10/63	-63 BRACE SHOWN ON CROSS SECTION
DRAFTSMAN	DATE	MATERIAL	FINISH
D.R.J.	4-8-63	SCALE	AS LISTED
CHECKER	4-8-63	1/4 & NOTED	OPTIONAL NOTE
ENGINEER	4-8-63	NAME	5-20-58
APPROVAL	4-8-63	NAME	REAR-LOADED LOWBOY HORN
JAMES B. LANSING SOUND, INC. 3249 castles ave. - los angeles 39, california			MODEL NUMBER C40
SHEET NO. 4			OF 4